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ABSTRACT

A second survey of school media services in Iowa was conducted in 1980 in order to measure trends and determine the degree to which schools have met new media services guidelines. The survey instrument included many of the same questions as the questionnaire used for the original study in 1976. One major focus of the data interpretation was the number of school library media centers meeting and not meeting specific quantified guidelines set forth in Phase I of Plan for Progress, K-6 and Plan for Progress, 7-12, which were revised after the first survey was completed; changes in guidelines are noted. The total number of quantified guidelines met by each school media center was the second major focus, while the third was concerned with averages, ranks, percentiles, and ratios. When this information is related to quantified guidelines, it is presented with the discussion of the pertinent guidelines. Data not related to guidelines are discussed separately, and general interpretations and conclusions close the report. Appended tables display detailed data on the range of standards met for materials, equipment, staff and budget, support staff, expenditures, and facilities; comparisons with 1976 data are also provided. (Author/LMM)

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SURVEY OF THE STATUS OF MEDIA SERVICE
IN IOWA PUBLIC SCHOOLS

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CHAPTER I

INTRODUCTION

The Department of Public Instruction did a "survey of the State of Media Service in Iowa Public Schools" with the assistance of the Iowa Educational Media Association in the fall of 1976. The Department wanted to determine the status of media services to provide assistance to the schools and to give direction to the Department in the proposed revision of the Plan for Progress in the Media Center, K-6, and 7-12. The Association had as an added objective "to engage in a program of information dissemination and education to effect legislation." An extensive report, Survey of the Status of Media Services in Iowa Public Schools was published in 1978. A revision of the Plan for Progress in the Media Center, K-6 was issued in 1979. Plan for Progress in the Media Center, 7-12 followed in 1980.

In order to measure trends and the degree to which schools met the new guidelines, a second survey, including many of the same questions as the 1976 instrument was made in 1980. Survey of the Status of Media Service in Iowa Public Schools: 2, reports on that survey and compares it with the 1976 survey where pertinent.

CHAPTER II

DATA ANALYSIS PROCEDURES

When the Survey of the Status of School Media Service was made in the fall of 1976 there were 1792 public schools in Iowa. One thousand, five hundred and forty-two survey instruments covering 1634 schools were available for analysis. In 1980 when the second survey was made there were 1762 public schools. One thousand, three hundred and fifty two instruments covering 1486 schools were analyzed (see Table I, Survey Participation). With a 91.18% return in 1976 and a 84.34% return in 1980 and with many of the same questions asked both years, the comparison of the two surveys should give evidence of trends in school media services. Therefore, this report will compare data from the two surveys when pertinent and available.

Both surveys were capable of being divided into categories by grade level, by school district size, by Area Education Agency or by county, and by combinations of the categories. This report will consider only grade level and school district size. The grade spans used were:

<u>Span Code</u>	<u>Level</u>
1	K-6
2	7-12
3	K-8
4	Middle School (5-8)
5	K-12

The school district sizes are the ones used in many department reports:

<u>Size Code</u>	<u>Total School District Enrollment</u>
1	Up to 499
2	500-749
3	750-999
4	1000-1499
5	1500-1999
6	2000-2999
7	3000 - over

Table 1.1 shows the distribution of reports among the spans and sizes for both years.

One major focus of the data interpretation was the number of school library media centers meeting and not meeting specific quantified guidelines set forth in Phase I of Plan for Progress, K-6 and Plan for Progress, 7-12. These publications were revised after the first survey was completed. Interpretation of this data appears in Chapter 3. Changes in guidelines are noted.

A second focus of the interpretation was the total number of quantified guidelines met by each school media center. This data also appears in Chapter 3.

A third major focus of the data interpretation concerned averages, ranks, percentiles and ratios. When this information is related to quantified guidelines it is presented with the discussion of the pertinent guideline in Chapter 3. Data not related to guidelines is discussed in Chapter 4. General interpretations and conclusions appear in Chapter 5.

Because of space constraints and because most reports for both 1976 and 1980 fell in Span 1 (K-6) and Span 2 (7-12), emphasis is placed on Spans 1 and 2. A few reports include other spans or a breakdown by size. More detailed information can be requested from the Department of Public Instruction.

CHAPTER III

ANALYSIS OF QUANTIFIED GUIDELINES

Using the standards set forth in Phase I of Plan for Progress, 32 quantified guidelines which relate to the quality of school library media programs in Iowa were measured and analyzed in the 1980 study. These guidelines are distributed among four subcategories for 1980 and five subcategories in 1980 as follows:

	<u>K-6</u>		<u>7-12</u>	
	<u>1976</u>	<u>1980</u>	<u>1976</u>	<u>1980</u>
Materials	11	10	12	9
Equipment	16	19	20	20
Seating	1	-	1	-
Personnel	2	2	2	2
Budget	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Total	31	32	36	32

Table 2 shows the number of guidelines met by the 1352 reporting schools in a percentile distribution by spans. Of the 32 possible guidelines, 50% of the schools met 12 (37.50%) or fewer and 90% of the schools met 18 (56.25%) or fewer. These results suggest little progress since the 1976 study in which 50% of the school in Spans 1 and 2 also met 12 or fewer guidelines. Little difference is noted among the spans in the 1980 study though Span 3 (K-8 schools) reported slightly lower results than the other spans.

Guidelines for Materials

Plan for Progress Phase I provides 10 quantified guidelines for materials at the elementary level (Spans 1 and 3) and 9 at the secondary level (Spans 2, 4 and 5). Table 3 displays the guidelines. Table 3.1 shows the number of guidelines met in a percentile distribution by spans. Of all the reporting schools, 10% met no guidelines while 25% met none or one. Six or fewer guidelines were met by 90% of the schools.

Table 3.2 offers a comparison between the 1976 and 1980 studies in number of guidelines met for Spans 1 and 2. Results of the two studies are not exactly comparable because of revisions in Plan for Progress guidelines between the two studies. The guidelines were revised downward in areas in which the 1976 study revealed major discrepancies between the guidelines and current practice in Iowa schools. Six guidelines remain the same for both K-6 and 7-12 schools. Three guidelines were reduced for both groups and one was eliminated. An additional guideline was reduced at the elementary level and two were eliminated at the secondary level.

With the combined effect of four years of acquisition and the revision of the guidelines, Table 3.2 does suggest progress being made in material holdings of Iowa schools. In 1976, 32.50% of the K-6 schools failed to meet even one guideline. That figure drops to 26.20% in the 1980 study. Among the 7-12 schools 22.36% failed to meet a single

guideline in 1976 while that figure drops to 18.20% for 1980. Progress more marked at the K-6 level, is also demonstrated by the following table:

Guidelines Met	Span 1 (K-6)				Span 2 (7-12)			
	1976		1980		1976		1980	
	N	%	N	%	N	%	N	%
5 or fewer	805	95.49	623	87.75	510	92.73	422	88.28
6 or more	38	4.51	87	12.25	40	7.27	56	11.72

A comparison of total numbers and averages per school of various kinds of materials held by school library media centers in Iowa schools in 1976 and 1980 is displayed in Table 3.3 by span. The average number per school of books by title and volume and sound filmstrips increased for each span between 1976 and 1980. The average number of newspapers decreased in four spans and stayed the same in Span 4. The average number of globes and professional magazines decreased in all spans. The following table shows gains and losses for each material category (note, however that data for Spans 3 and 5 may not be comparable since 23 fewer schools reported in Span 3 in 1980 while 38 more schools reported in span 5):

	Span 1*	Span 2	Span 3	Span 4	Span 5	Total
Books, titles	+	+	+	+	+	+
Books, volume	+	+	+	+	+	+
Magazines	-	+	-	+	-	+
Newspapers	-	-	-	S	-	-
Silent FS	+	+	+	-	-	-
Sound FS	+	+	+	+	+	+
Recordings	+	+	-	-	+	+
Study Prints	+	+	-	-	+	+
Globes	-	-	-	-	-	-
Art Prints	-	+	+	-	-	+
Prof. books	+	+	-	-	+	+
Prof. magazines	-	-	-	-	-	-
Transparancies	+	+	-	-	+	+
Slides	-	+	+	-	+	+

* + = gains, - = losses, S = same

The schools in Span 2 increased their holdings in 11 categories while those in Span 4 made gains in only 4 categories. Taken together, the 1352 schools in the study made gains in 10 materials categories and reported losses in 4.

The range of materials held is displayed in Table 3.4 by span. With the exception of books by title and volume in Spans 2, 3, 4, and 5, student magazines in Spans 2 and 3, and recordings in Span 3, the table shows that there are categories in all spans in which one or more schools have no materials at all. A comparison of the upper end of the ranges with the quantified guidelines shows that the school (or schools) reporting those figures exceeds Phase I in almost every instance.

Guidelines for Equipment

Table 4 shows the Plan for Progress Phase I guidelines for equipment. Table 4.1 shows the range of equipment and standards met in a percentile distribution by span. Of the 1352 schools reporting, 10% met 6 or fewer guidelines and 90% met 13 or fewer. The spans show a little variation with the clearest differences observable at the 90th percentile. The range at the 90th percentile is 10 guidelines met (Span 3) to 14 guidelines met (Span 2).

Table 4.2 displays a comparison of equipment guidelines met in 1976 and 1980 by K-6 and 7-12 schools. The two studies are not exactly comparable because of revisions in Plan for Progress prior to the 1980 study. For K-6 schools 13 guidelines remained the same, 3 were raised and 3 were added. For 7-12 schools 15 remained the same, 2 were lowered and 3 were raised. These changes reflect current practice in Iowa schools as well as increased use of educational technology. While no schools reported being unable to meet a single equipment guideline in 1976, eight K-6 schools reported no equipment guidelines met in 1980. Span 1 experienced a slight increase in percentage of schools able to meet 11 or more guidelines, but a loss is marked at the 7-12 level as shown by the following table:

Guidelines Met	Span 1 (K-6)				Span 2 (7-12)			
	1976		1980		1976		1980	
	N	%	N	%	N	%	N	%
10 or fewer	580	68.80	472	66.48	359	65.27	384	80.33
11 or more	263	31.20	238	33.52	191	34.73	94	19.67

A comparison of the total numbers and averages per school for equipment held by Iowa schools by span in 1976 and 1980 is shown in Table 4.3. Span 1 (K-6 schools) showed gains in average numbers in 14 of the categories for which quantified guidelines are provided in both studies, a loss in 2 categories, and the same in 1 category. Of those categories for which quantified guidelines are provided in both studies, 7-12 schools made gains in 16, a loss in 2, and reported the same in 1. The 1352 schools reported their equipment holdings in 30 separate equipment categories. Average numbers of equipment held increased, though sometimes very slightly, in 20 categories and decreased in 4. Data for the six remaining categories are not comparable in the two studies.

Table 4.4 offers the range of equipment holdings by individual categories for Spans 1 and 2. Without exception there are 1 or more schools reporting no equipment holdings in every category. As in the materials category, the upper ends of the ranges tend to exceed the Phase I guidelines. Table 4.5 shows the range of equipment holdings with a percentile distribution for Spans 1 and 2. At the 90th percentile the categories in which the schools in both spans have the largest numbers of pieces of equipment are filmstrip projectors and viewers, overhead projectors, record players, tape recorders, carts, listening stations and permanently-mounted screens. It should be noted, however, that there may be more demand for these in daily classroom use while other pieces of equipment (for example opaque projectors and duplicating machines) presently experience less demand or are more easily shared.

Table 4.6 shows video equipment by types and computer equipment by brands for those interested in the state of the art in these two emerging and changing technologies.

Guidelines for Personnel and Budget

Phase I Plan for Progress guidelines for professional staff, support staff, and budget are displayed in Table 5. Table 6 provides an analysis of professional staff in relation to schools, students and teachers. In Span 1 and Span 3, where a school library media specialist is not required by law, 64.37% and 78.13% of the schools respectively have the services of a professional. In Span 2, Span 4 and Span 5, where a school media specialist is required by law, 97.07%, 81.67% and 95.83% of the schools respectively are so served. A total of 1064 schools reported the presence of professional staff with an average of .744 persons per school. Span 1 (K-6) schools appear most likely to be served by a half-time (.537) person while Span 2 (7-12) schools come closer to being served by a full-time (.944) person.

Two kinds of comparisons of media personnel with students are also provided by Table 6. For those students who are served by a media specialist, the ratio is 493.1 students per professional. Of the total enrollment for all schools reported in the study, 84.75% of the students have access to the services of a professional. Similar data are reported for teachers. For those served by a media specialist, the ratio is 29.84 teachers per professional. Of the teachers in the total population, 85.57% have access to the services of a professional.

Table 6.1 shows the number and percent of schools meeting the guidelines by span and size for the 1976 and 1980 studies. The total shows a very slight difference of 28.27% meeting the guidelines in 1976 and 28.25% in 1980. Span 1 (K-6) and Span 3 (K-8) show increases while Spans 2 (7-12), 4 (middle school) and 5 (K-12) show decreases. It should be remembered that the number of schools reporting in Spans 3 and 5 are substantially different in the two studies (see Table 2). The schools in the 3 smallest size groups showed decreases in the percentage meeting the guidelines while those in the 4 largest size groups reported increases.

Number and percent of professional staff by endorsement are shown in Table 6.2. Reading from left to right, Table 6.2 deals with one endorsement at a time. The column on endorsement 51 (Director of Library Services) includes all people with 51, regardless of other endorsements included in Table 6.2. The column on endorsement 34 (School Librarian) includes all people with 34 who do not also have 51. The column on approval 86 (Teacher Librarian) includes people with only an 86 or with an 86 and a 39. The column on endorsement 39 (Educational [or Audiovisual] Media Specialist) includes people who have none of the other endorsements or approvals. Endorsement 51 is held by 338 (29.49%) of media personnel in reporting schools. Endorsement 34 is the main relevant endorsement held by 524 (45.72%) persons. Endorsement 39 is the only endorsement held by 44 (3.84%) and approval 86 is by 210 (18.32%). Some of these may also hold endorsement 39. Of these 1146 persons, 47 (4.10%) had dual endorsements in library science and educational media (audiovisual). A comparison of the range of professional staff for the 1976 and 1980 studies appears in Table 6.3. A summary of Table 6.3 shows some gains and some losses in professional staff by schools as follows:

FTE's	Span 1				Span 2				Total			
	1976		1980		1976		1980		1976		1980	
	N	%	N	%	N	%	N	%	N	%	N	%
.0	326	38.67	253	35.63	13	2.36	14	2.93	364	23.61	288	21.30
.1-.5	315	37.37	267	41.83	107	19.45	113	23.64	465	30.16	472	34.91
.6-1.0	184	21.83	151	21.27	356	64.73	299	62.55	615	39.88	525	38.83
1.1-7.6	18	2.14	9	1.27	74	13.45	52	10.88	98	6.36	67	4.96

Analysis of the summary table shows slight gains in 1980 in Span 1 (K-6) schools. A lower percentage (35.63%) reported no professional staff while a higher percentage (41.83%) reported staff in the .1-.5 full-time equivalent (FTE) bracket. In Span 2 there appears to be some loss of staffing. Fewer schools (10.88%) reported staffing in the 1.1-7.6 FTE bracket and fewer schools (62.55%) reported staffing in the .6-1.0 FTE bracket. In contrast, more 7-12 schools (23.64%) reported staffing in the .1-.5 FTE bracket. Of the total schools there were fewer in 1980 (288 or 21.30%) who reported no professional staff than in 1976 (364 or 23.61%). Conversely, more schools in 1976 reported more than one professional (98 or 6.36%) than in 1980 (67 or 4.96%). In 1980, 997 schools (73.74%) reported employing media professionals in a range from .1 to 1.00 FTE compared with 1080 (70.04%) in 1976.

Table 6.4 shows the range of professional staff in a percentile distribution both with and without those schools reporting no professionals. In Spans 2, 4 and 5, where a certificated person is required by law, 10% of the schools reported employing .5 FTE or less in both 1976 and 1980. For all spans, 10% of the schools employed .1 FTE or less in 1976 and .2 FTE or less in 1980. Table 6.5 shows a similar percentile distribution for those schools with certificated personnel holding endorsement 34 or approval 86.

Plan for Progress provides for support staff equal to the professional staff at the elementary level and two times the professional staff at the secondary level. Table 7 shows the range of support staff in a percentile distribution for all schools and for those served by support staff. Span 1 schools (K-6) falling at the 90th percentile tend to have one full-time nonprofessional library media support member while the Span 2 schools (7-12) tend to have two. With all schools included in the computation, those falling at the 25th percentile and below tend not to employ a library media support person. When only those schools served are included, those at the 10th percentile tend to employ .2 FTE support person and those at the 25th percentile .5 FTE.

A comparison of the number of schools meeting the standard for nonprofessional support personnel in 1976 and 1980 is provided in Table 7.1. In 1976, 272 schools (17.60%) met the standard and in 1980 307 schools (22.71%) met the standard which represents a 5.09% gain. Span 1 schools accounted for a substantial share of the gain. In 1976, 244 Span 1 schools (28.90%) met the standard while those numbers increased to 289 (40.70%) in 1980.

Table 7.2 displays the number of clerical and technical support staff, the number of schools served, and the average FTEs. Of the 1352 schools covered by the study, 972 (71.89%) provide support staff in the school library media center. While there are 83 persons employed as technicians, there are 1281 persons employed in clerical positions for a combined total of 1364 persons working 811.6 FTEs. On the average, the 972 schools are served by .835 FTE support staff.

The number and percent of schools meeting the Plan for Progress guideline for both professional and nonprofessional staff are displayed in Table 8. Span 1 (K-6) accounted for 80 of the 87 schools meeting the guidelines. Of the 1352 schools covered by the study, 6.43% met the guidelines for staffing.

Guidelines for Expenditures

In the revisions of Plan for Progress between the 1976 and 1980 studies the expenditure guideline was modified from 3% of the Iowa per pupil expenditure (PPE) to 1%. Two schools met the guideline at 3% (\$50 PPE) in 1976 while 142 schools (10.50%) met the 1% guideline (\$16.09 PPE) in 1980. Span 2 schools (7-12) accounted for 86 or 60.56% of the schools meeting the guideline.

Table 9.1 shows the range of per pupil expenditures by span for various aspects of school library media expenditures, with a comparison of the totals only, for 1976 and 1980. The 1980 range is greater than that for 1976 in Spans 1, 4, and 5 but less in Spans 2 and 3. All spans report a peak range for print media that is greater than the peak range for audiovisual media. Average per pupil expenditures by span are displayed in Table 9.2 with a comparison between 1976 and 1980 figures. In all instances but one (combined expenditures for Span 3) 1980 per pupil expenditures exceed those for 1976. A large portion (71.81%) of the total 1980 per pupil expenditure is allotted to purchase of print and audiovisual materials.

Table 9.3 compares average expenditures per school by categories for 1976 and 1980. While the totals by categories for 1980 all exceed the 1976 figures, the totals by spans show declines in expenditures for Spans 3 (K-8 schools) and 4 (middle schools). There appear to be slight shifts in priorities by categories as shown by the following table:

	Percent of Total Expenditures	
	1976	1980
Print	50.42	55.07
AV	19.59	16.74
Print and AV	70.01	71.80
Equipment	21.34	19.05
Supplies	8.66	9.14

Table 9.4 shows the range of materials expenditures per school by span. Top of the range for Span 3 (K-8) is \$9,876 while the top of the range for Span 2 (7-12) is \$63,900.

CHAPTER IV

Questions for Which no Quantified Guidelines are Provided

Physical Span Used as Library or Media Center

The Plans for Progress (both K-6 and 7-12) are based on the premise that each school will have a physical space which is used as a library or media center. Table 10 indicates that 90.99% of the responding schools reported having media centers or libraries in 1976. In 1980, 95.56% of the responding schools reported a center. The percentage increased for all grade spans. Span 1 (K-6) increased nearly 6%. Span 2 increased only 1%, but the number reporting centers in 1976 was at 98.73%.

Location of Print and Audiovisual Material Within School

Table 11 deals with the location of print and nonprint (audiovisual) materials within the school. The table compares the number of schools housing materials in the center, the classroom or in other locations in 1976 with those in 1980. The percentage of schools housing both print and nonprint materials in the library or media center increased. In 1976, 86.06% of the schools housed print materials in the center and 54.88% of the schools housed nonprint materials there. In 1980, the percentage for print was 93.64, the percentage for nonprint was 69.67.

For grade Spans 1 and 2, the change for nonprint materials was very similar to the overall change. In the print area, Span 1 moved from 80.78% to 89.86% which the span 2 schools moved from 94.91% to 98.54%.

Classification and Cataloging Print and Nonprint Materials

Tables 12, 12.1 and 13 consider classification and cataloging for books and audiovisual materials. Table 12 gives the percent of schools not classifying materials, using Dewey, or using accession or other identification systems in 1976 and 1980 by span. There is a gain in the total number of schools using Dewey. In 1976, 90.47% of the schools classified books using the Dewey system. In 1980, 93.79% did so. The audiovisual materials were reported as classified by the Dewey system in 40.27% of the schools in 1976 and by 49.26% in 1980. The elementary schools (Span 1) were lower than the overall average both years, with the secondary schools (Span 2) being higher both times.

Table 12.1 breaks Spans 1 and 2 down by size code for 1980 only. There appears to be a correlation between the size of the school and the classification system or each thereof. Nearly 15% of the Span 1, Size 1 schools (under 500 district enrollment) reported their books unclassified. Over 67% reported their audiovisual materials unclassified. For Size 7 (3000 or higher district enrollment) nearly 3% of the schools in Span 1 reported their books to be unclassified. Over 12% reported their audiovisual materials unclassified. In the audiovisual area there is a regular progression. There are two exceptions in the print area.

There also appears to be a relation between the grade level and the use of the Dewey Decimal System. An average of 0.42% of the secondary schools and 8.31% of the elementary schools report unclassified books. Averages of 89.30% for elementary and 99.37% for secondary schools are reported for the use of the Dewey Decimal Classification System. The difference for audiovisual materials is similar.

Table 13 compares the types of catalogs available in 1980 and in 1976 by span. The choices were uncataloged, dictionary catalog (author-title-subject in one alphabet), other card catalog (either separately filed author-title-subject or catalog not including all three types of cards), printed list, and other. There appears to be little change in the categories of uncataloged and printed list regardless of year for Spans 1 and 2. There may be a slight trend away from the dictionary catalog to a divided catalog especially at the secondary level.

Span 5 (K-12) seems to vary the most from the norm. The responses are also double in 1980 the number available in 1976 despite the overall decline in responses received. Both factors may relate to the declining enrollment most school districts have experienced which has no doubt contributed to the combination of more centers and collections. Overall the use of a card catalog for both print and audiovisual materials increased.

CHAPTER V

CONCLUSIONS

The second survey of the Status of Media Services in Iowa Schools reveals a mixed picture of progress in the four years between the 1976 and 1980 studies. Keeping in mind that the population of the two studies are not exactly comparable and that Plan for Progress guidelines were revised in the interim, it is still possible to draw some conclusions. It is to be hoped that schools would have made steady progress toward and improvement in their abilities to meet the guidelines. According to the 1980 survey there are areas in which slight gains were made, areas of slight losses, and categories for which there is a tendency to have maintained the status quo over the four year period.

While a percentile distribution for range of all guidelines met was computed only for Spans 1 (K-6) and 2 (7-12) in 1976, those two spans make up a large portion of both study populations (90.34% in 1976 and 87.87% in 1980). Table 2 shows little progress in the overall ability of those two groups of Iowa schools to meet the quantified guidelines provided by Plan for Progress. It appears there was little impetus in the late 1970's to improve library media services to the point at which more schools could meet more guidelines.

The categories in which schools increased their average number of materials exceed the categories in which there were losses. Library media specialists appear to be placing highest priority on acquisition of books and sound filmstrips since average holdings (Table 3.3) increased in those two categories in all spans. Since most silent filmstrips were probably purchased prior to 1970 and will be withdrawn over time because of age, the decrease of 18.7 in average holdings is not a cause for concern. Increases in subscription prices for periodicals may have forced the dropping of some subscriptions. Spans 1, 3, and 5 reported a decline in magazines for students, and all spans indicated fewer professional magazines are being purchased. While Span 4 held its own, all other spans reported a loss in newspaper subscriptions. It appears that globes are not being replaced as they become worn or outdated since all spans indicated a loss in that category.

Plan for Progress provides no guidelines for kits, games, and activity cards, but information about those categories was elicited in the 1980 study. The numbers reported suggest that those are viable resources for the school library media center to provide (Table 2.3). They appear to be most useful at the elementary school level since Span 1 reported approximately 70% of the holdings in each of the three categories.

While their ability to meet Plan for Progress equipment guidelines has declined markedly in Span 2 schools, the total and average number of pieces of equipment for all schools has increased in many categories. In some instances, the 1352 schools in the 1980 study own collectively more pieces of equipment than the 1542 schools in the 1976 study (Table 4.3). Declines in some categories can be attributed to technological advances and preferences in other categories. Average holdings for sound filmstrip and slide projectors increased while those for combination

silent filmstrip/slide projectors decreased. Average holdings for cassette tape players and recorders increased while those for reel-to-reel tape recorders decreased.

A guideline for video tape equipment was added in the revision of Plan for Progress. Schools in 1980 reported owning 1807 video tape recorders and 402 video tape players compared with 1090 in 1976. This suggests that many schools added videotape technology during the four years. No guideline exists for computer technology, but information was sought for that category in 1980. The 478 schools in Span 2 reported owning 611 microcomputers which suggests acceptance of their use at the secondary level. The 710 elementary schools reported owning only 149 microcomputers but it is likely that figure has changed since the study data was collected.

The loss of professional media specialist services becomes most apparent in analyzing the full-time equivalence in the two studies. The FTE's reveal a definite trend to reduce the amount of time a library media center is staffed by a professional person. The one bright spot is a slight reduction (3.04%) in the number of elementary schools in Span 1 reporting no media specialist. Size appears to be a factor in provision of professional staff since the 3 smallest size groups reported decreases in the percentage meeting the guidelines while the 4 largest size groups reported increases.

Of substantial concern to media professionals are implications to be drawn from staffing statistics reported by the K-6 schools in Span 1 and the 7-12 schools in Span 2. The following table provides a comparison of professional and support staff for the two spans:

	Span 1		Span 2	
	Professional	Support	Professional	Support
Schools with	475	562	464	311
Number	469	690	527	551
FTE	245.4	389.1	438.2	348.8
Av. Number	.537	.692	.944	1.122

As a minimal ideal the profession supports the presence of at least one full-time professional along with a full-time aide. (The exception in Plan for Progress permits a half-time professional and aide in elementary buildings with enrollment under 250.) It is apparent that school districts are employing more aides for more time than professionals at the elementary level and that some aides must be working without the direct supervision of a media professional. On the other hand 153 secondary media specialists do not have any aide support and consequently must be performing many clerical tasks.

Expenditures for print materials showed about a 7.5% increase per year on average per building for the four year period. This barely kept pace with inflation and therefore provided little opportunity for growth in provision of services. Other expenditures showed even less growth.

The revision of the expenditure guideline in Plan for Progress appears to make it more compatible with practice in the field since 142 schools (10.50%) were able to meet the 1 percent PPE at \$76.09 per pupil.

A regressive trend is a slight shift away from the purchase of audiovisual materials toward the purchase of print materials. In 1976, 19.59% of expenditures were committed to AV purchases. The percentage drops to 16.74% in 1980. The effect of the shift is more apparent when one looks at average expenditures per school (table 9.3). In 1976 Span 1 schools were spending about half of their budgets for AV materials, while they report spending about one-third in 1980. The shift is not so dramatic in Span 2 schools with AV expenditures dropping from 32.53% in 1976 to 29.74% in 1980.

The most startling conclusion one can draw from an analysis of the study data is that there are tremendous inequities in school library media services for Iowa K-12 students. Some students have no services in a number of the guideline categories while others have access to service in a number of categories which meet or exceed Phase I guidelines. This inequity is partially revealed by a comparison of tops of ranges with average numbers. While some of the categories must be interpreted in relation to enrollment and number of teaching stations, the differences are too striking to be accounted for by size alone. The following table offers a sampling to illustrate the point:

	Span 1		Span 2	
	Average	Top of Range	Average	Top of Range
Books (Titles)	5317.7	14,300	7536.3	36,371
Sound filmstrips	150.0	1,360	235.7	4,050
Recordings	153.8	2,287	229.7	2,080
Overhead Projectors	9.55	32	15.04	56
Cassette recorder	13.66	34	13.99	52
Microcomputer	.16	8	.91	9
Professional	.537	2.4	.944	7.6
Expenditures	\$3199.00	\$17,300.00	\$6810.00	\$63,900.00

TABLE 1
Survey Participation

	1976	1980
Total Number of Iowa Public Schools	1792	1762
Total Schools Covered by Report	1634	1486
Percent Covered	91.18%	84.34%
Total Reports	1542	1352
Number Covered on Other Reports	92	134
Percent Covered on Other Reports	5.63%	7.61%
Number Not Covered in Any Report	158	276
Percent Not Covered in Any Report Used	8.82%	15.66%

TABLE 1.1
IEMA-DPI Media Survey
Distribution Chart
Comparing 1976 and 1980 Surveys

SPAN	SIZE 1	SIZE 2	SIZE 3	SIZE 4	SIZE 5	SIZE 6	SIZE 7	TOTAL
1								
76	87	84	82	76	68	113	333	843
80	74	84	66	57	89	72	268	710
2								
76	117	84	87	59	34	58	111	550
80	106	91	57	43	48	32	101	478
3								
76	18	12	8	10	1	1	5	55
80	14	9	6	1	1	0	1	32
4								
76	5	11	13	13	5	4	9	60
80	6	16	10	8	11	3	6	60
5								
76	25	8	0	1	0	0	0	34
80	57	6	4	1	0	0	4	72
Total								
76	252	199	190	159	108	176	458	1542
80	257	206	143	110	149	107	380	1352

TABLE 2
Range of Standards Met
(32 Standards Possible)
Percentiles

Percentiles	Span Codes							Total
	Span 1		Span 2		Span 3	Span 4	Span 5	
	1976	1980	1976	1980	1980	1980	1980	
90	18	17	19	19	16	19	17	18
75	13	14	16	16	13	16	15	16
50	12	12	12	13	11	12	11	12
25	9	9	9	10	8	10	8	9
10	7	7	7	8	6	7	7	7

TABLE 3
Plan for Progress
Phase I Guidelines for Materials

	PHASE I	
	K-6	7-12
Books by Title	6,000	7,000
Books by Volume	greater of 6,000 or 10 per pupil	greater of 8,000 or 12 per pupil
Magazines for Students	15-24	JH 75 SH 100-125
Newspapers	3	6
Silent Filmstrips	greater of 500 or 1 per pupil	
Sound Filmstrips		
Sound Recordings	greater of 600 or 2 per pupil	
Study Print Sets	50 sets	*no standard - do not count
Globes	1 per teaching station + 2	1 per 5 teaching station +2
Art Prints	*no	standard
Professional Books	75	
Professional Magazines	10	
Transparencies	*no	standard
Slides	*no	standard
Micro Materials	*no	standard
Kits	*no	standard
Games	*no	standard
Activity Cards	*no	standard
TOTALS	10	9

TABLE 3.1
 Range of Materials Standards Met
 (10 Standards) Span 1, 3 (9 Standards) Spans 2, 4, 5
 Percentiles

Percentiles	Span Codes					Total
	1	2	3	4	5	
90	6	6	6	4	5	6
75	4	4	5	3	4	4
50	2	2	4	2	3	2
25	0	1	2	1	1	1
10	0	0	0	0	0	0

TABLE 3.2
Comparison of Number of Materials Guidelines Met
for 1976 and 1980
Spans 1 and 2

Number of Standards Met	Span 1, K-6 Total possible 1976 - 11 1980 - 10				Span 2, 7-12 Total possible 1976 - 12 1980 - 9			
	1976		1980		1976		1980	
	Number of Schools	% of Schools	Number of Schools	% of Schools	Number of Schools	% of Schools	Number of Schools	% of Schools
12								
11								
10					1	0.18	0	0.00
9	0	0.00	1	0.14	2	0.36	1	0.21
8	2	0.24	11	1.55	10	1.82	2	0.42
7	13	1.54	29	4.08	8	1.45	14	2.93
6	23	2.74	46	6.48	19	3.45	39	8.16
5	47	5.58	57	8.03	37	6.73	45	9.41
4	66	7.83	68	9.58	49	8.91	51	10.67
3	83	9.85	73	10.28	79	14.36	60	12.55
2	129	15.30	119	16.76	94	17.08	76	15.90
1	206	24.44	120	16.90	128	23.27	103	21.55
0	274	32.50	186	26.20	123	22.36	87	18.20

TABLE 3.3
Total Number and Averages of Materials per School for Each Span
Comparison of 1976 and 1980

	Span 1				Span 2				Span 3			
	1976		1980		1976		1980		1976		1980	
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
Books, Titles	3,736,429	4,432.3	3,775,534	5,317.7	3,540,388	6,437.1	3,602,341	7,536.3	270,428	4,916.9	219,406	6,856.4
Books, Vol.	4,119,200	4,886.4	4,069,137	5,731.2	3,755,722	6,828.6	3,807,380	7,965.2	285,646	5,193.6	242,692	7,584.1
Magazines	11,450	13.6	9,356	13.2	34,805	63.3	32,440	67.9	1,358	24.7	705	22.0
Newspapers	1,061	1.3	688	1.0	2,756	5.0	2,261	4.7	145	2.6	69	2.2
Silent Filmstr.	202,265	239.9	174,519	245.8	123,806	225.1	108,676	227.4	19,750	359.1	11,828	369.6
Sound Filmstr.	83,048	98.5	106,516	150.0	73,345	133.4	112,649	235.7	4,863	98.4	4,453	139.2
Recordings	115,788	137.4	109,224	153.8	98,356	178.8	109,782	229.7	8,557	155.6	4,579	143.1
Study Prints	34,087	40.4	35,117	49.4	20,254	36.8	18,128	31.9	2,402	43.7	655	20.4
Globes	8,151	9.7	6,355	8.9	1,743	3.2	1,178	2.4	563	10.2	188	5.8
Art Prints	9,239	11.0	7,262	10.2	15,638	28.4	17,872	31.3	890	16.2	958	29.9
Profess. Books	52,171	61.9	54,366	76.5	48,410	88.0	47,014	93.3	3,322	60.4	1,868	58.4
Profess. Magaz.	4,712	5.6	3,813	5.3	6,281	11.4	4,991	10.4	405	7.4	187	5.8
Transparencies	118,519	140.6	100,218	141.1	149,723	272.2	148,720	311.1	9,960	181.0	3,459	108.0
Slides	47,534	56.4	38,567	54.3	209,138	380.3	266,852	558.2	10,314	187.5	6,962	217.6
Micro-Material			589	0.8			176,977	370.2			2	0.0
Kits			35,320	49.7			11,595	24.2			940	29.3
Games			28,154	39.6			4,966	10.3			1,144	35.7
Activity Cards			8,186	11.5			1,454	3.0			178	5.5

TABLE 3.3 con't.
Total Number and Averages of Materials Per School for Each Span
Comparison of 1976 and 1980

	Span 4				Span 5				Total			
	1976		1980		1976		1980		1976		1980	
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
Books, Titles	298,720	4,978.7	343,691	5,728.2	230,001	6,764.7	598,900	8,318.1	8,075,965	5,237.3	8,539,872	6,316.5
Books, Vol.	314,847	5,247.2	361,605	6,027.8	245,295	7,214.6	610,282	8,476.2	8,716,240	5,652.6	9,091,095	6,724.2
Magazines	2,128	35.4	2,134	35.6	1,666	49.0	3,347	46.5	51,407	33.0	47,982	35.5
Newspapers	190	3.2	191	3.2	152	4.5	302	4.2	4,304	2.8	3,511	2.6
Silent Filmstr.	14,806	246.8	12,554	209.2	13,998	411.7	25,479	353.9	374,625	242.9	303,056	224.2
Sound Filmstr.	7,021	117.0	8,409	140.2	1,902	59.9	7,161	99.9	170,179	110.4	239,188	176.9
Recordings	10,012	166.9	8,460	141.0	4,950	145.6	13,342	185.7	237,633	154.1	245,387	181.5
Study Prints	1,468	24.4	851	14.1	743	21.9	2,716	37.7	58,954	38.2	57,467	42.5
Globes	403	6.7	393	6.5	281	8.3	435	6.0	11,141	7.2	8,549	6.3
Art Prints	1,455	24.3	550	9.1	888	26.1	1,777	24.6	28,110	18.2	28,419	21.0
Profess. Books	3,394	56.6	3,188	53.1	2,154	63.4	6,591	91.5	19,471	71.0	113,027	83.5
Profess. Magaz.	616	10.3	465	7.7	287	8.4	495	6.8	12,338	8.0	9,951	7.3
Transparencies	13,916	231.9	5,714	95.2	6,015	176.9	13,485	187.2	298,423	193.5	271,596	200.8
Slides	8,440	140.7	5,476	91.2	3,646	107.2	13,658	189.6	279,072	181.0	331,515	245.2
Micro-Material			773	12.8			1,739	24.1			180,080	133.2
Kits			960	16.0			2,117	29.4			50,932	37.6
Games			976	16.2			1,683	23.3			36,923	27.3
Activity Cards			283	4.7			408	5.6			10,509	7.7

TABLE 3.4
Range of Materials Holdings

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5
Books, Titles	0 - 14,300	50 - 36,371	2,100 - 15,200	1,380 - 15,346	450 - 18,000
Books, Volumes	0 - 17,000	50 - 36,371	2,500 - 20,600	1,600 - 16,340	450 - 18,100
Magazines	0 - 59	5 - 280	2 - 50	0 - 98	0 - 170
Newspapers	0 - 12	0 - 17	0 - 6	0 - 7	0 - 12
Silent FS	0 - 2,000	0 - 2,259	0 - 1,242	0 - 1,100	0 - 1,715
Sound FS	0 - 1,360	0 - 4,050	0 - 875	0 - 1,200	0 - 1,266
Recordings	0 - 2,287	0 - 2,080	6 - 697	0 - 1,008	0 - 1,600
Study Prints	0 - 1,038	0 - 3,044	0 - 96	0 - 300	0 - 650
Globes	0 - 60	0 - 26	0 - 23	0 - 36	0 - 34
Art Prints	0 - 375	0 - 3,089	0 - 520	0 - 139	0 - 300
Prof. Books	0 - 1,321	0 - 1,410	0 - 236	0 - 400	0 - 2,024
Prof. Magazines	0 - 70	0 - 103	0 - 25	0 - 53	0 - 35
Transparencies	0 - 8,593	0 - 7,556	0 - 1,150	0 - 800	0 - 2,036
Slides	0 - 2,553	0 - 14,000	0 - 5,845	0 - 763	0 - 3,080
Micro Materials	0 - 150	0 - 15,864	0 - 2	0 - 519	0 - 447
Kits	0 - 675	0 - 755	0 - 276	0 - 221	0 - 346
Games	0 - 445	0 - 230	0 - 200	0 - 107	0 - 153
Activity Cards	0 - 500	0 - 677	0 - 88	0 - 77	0 - 68

TABLE 3.5
Range of Materials Holdings
Percentiles for Spans 1 and 2
1980

	SPAN 1					SPAN 2				
	90	75	50	25	10	90	75	50	25	10
Books, Titles	8,650	6,944	5,000	3,500	2,225	12,977	9,450	6,605	4,528	3,180
Books, Volumes	9,298	7,455	5,408	3,782	2,500	14,421	10,015	6,880	4,606	3,168
Magazines	25	18	11	7	4	117	88	59	42	27
Newspapers	2	2	1	0	0	7	6	5	3	2
Silent FS	559	358	175	30	0	530	332	137	33	0
Sound FS	451	212	61	6	0	585	285	84	20	0
Recordings	380	200	93	23	0	632	285	116	37	7
Study Prints	127	50	13	0	0	56	14	1	0	0
Globes	21	13	7	2	0	5	3	1	1	0
Art Prints	29	0	0	0	0	72	15	0	0	0
Prof. Books	200	77	35	6	0	209	116	50	10	0
Prof. Magazines	10	7	4	2	1	24	14	7	3	0
Transparencies	351	125	30	0	0	710	233	57	0	0
Slides	140	40	0	0	0	1,340	500	80	0	0
Micro Materials	0	0	0	0	0	546	75	0	0	0
Kits	150	60	15	0	0	74	20	2	0	0
Games	125	47	9	0	0	30	12	1	0	0
Activity Cards	30	10	0	0	0	3	0	0	0	0

TABLE 4
Plan for Progress
Guidelines for Equipment

	PHASE 1	
	K-6	7-12
16mm Projectors	greater of 1 per 10 teaching stations or 1 per floor, +1	greater of 1 per 10 teaching stations, or 1 per floor, +2
Slide Projector	1 per building	1 per 10 teaching stations +1
Slide Viewers	1 per building	
Silent FS Projector FS/Slide Projector Automatic Sound Filmstrip Projector	1 per 5 teaching stations, +1	
Filmstrip Viewer	1 per 2 teaching stations	
Overhead Projectors	1 per 2 teaching stations +1	1 per 2 teaching stations +2
Opaque Projectors	1 per floor	
Television Monitors	1 per floor +2	greater of 1 per 15 teaching stations, or 1 per floor, +2
Micro(scope) Proj.	1 per building	
Record Players	K-1 1 per teaching station 2-3 1 per 2 teaching stations 4-6 1 per grade level, +1	1 per 15 teaching stations +1
Reel Tape Recorder Cassette Recorder Cassette Player	1 per teaching station	
Projection Carts	1 per large item of equipment	
Listening Stations	K-3 1 per teaching station 4-6 1 per grade level	1 per 15 teaching stations +1

TABLE 4 con't.
Plan for Progress
 Guidelines for Equipment

	PHASE 1	
	K-6	7-12
Mounted Screens	1 per teaching station	
Copy Machines	1 per building	
Duplicating Machine	1 per building	
Videotape Recorders & Playback Units	1 per floor with at least 1 VTR	Greater of 1 per 15 teaching stations, or 1 per floor with at least 1 VTR
Wireless Microphone	no standard - do not count	
Microform Readers	1 per building	
Microform Reader-Printer	no standard - do not count	1 per center if 2 $\neq$ 0
Radio receivers	1 AM-FM per bldg	3
Other	No standard	
Computer Terminals	No standard	
Micro Computers	No standard	
TOTALS	19	20

TABLE 4.1
 Range of Equipment Standards Met
 (19 Standards Possible) Spans 1 & 3;
 (20 Standards Possible) Spans 2, 4, 5
 Percentiles

Percentiles	Span Codes					Total
	1	2	3	4	5	
90	12	14	10	13	12	13
75	11	12	9	11	10	11
50	9	10	8	9	8	9
25	8	8	7	7	7	8
10	6	6	3	6	5	6

TABLE 4.2
Comparison of Number of Equipment Guidelines Met for 1976 and 1980
Spans 1 and 2

Number of Standards Met	Span 1, K-6 Total Possible 1976-16 1980-19				Span 2, 7-12 Total Possible 1976-20 1980-20			
	1976		1980		1976		1980	
	Number of Schools	% of Schools	Number of Schools	% of Schools	Number of Schools	% of Schools	Number of Schools	% of Schools
16					2	0.36	1	0.21
15	7	0.83	10	1.41	14	2.55	3	0.63
14	20	2.37	22	3.10	18	3.27	7	1.46
13	52	6.17	30	4.23	30	5.45	22	4.60
12	69	8.19	81	11.41	48	8.37	25	5.23
11	115	13.64	95	13.38	79	14.36	36	7.53
10	135	16.01	88	12.39	79	14.36	64	13.39
9	126	14.95	113	15.92	99	18.00	71	14.85
8	98	11.63	87	12.25	63	11.45	67	14.02
7	89	10.56	62	8.73	46	8.36	69	14.44
6	56	6.64	37	5.21	36	6.55	49	10.25
5	30	3.56	35	4.93	15	2.73	30	6.28
4	22	2.61	15	2.11	8	1.45	18	3.77
3	9	1.07	17	2.39	5	0.91	6	1.26
2	3	0.36	6	0.85	7	1.27	3	0.63
1	12	1.42	4	0.56	1	0.18	7	1.46
0	0	0.00	8	1.13	0	0.00	0	0.00

TABLE 4.3
Total Numbers and Averages of Equipment Per Schools for Each Span
Comparison 1976 and 1980

	SPAN 1				SPAN 2				SPAN 3			
	1976		1980		1976		1980		1976		1980	
	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.
16mm Projectors	2,401	2.85	2,371	3.34	3,294	5.99	3,413	7.14	224	4.07	125	3.91
Slide Projectors	760	.90	726	1.02	1,215	2.21	1,322	2.77	55	1.00	34	1.06
Slide Viewers	448	.53	428	.60	479	.87	431	.90	40	.73	27	.84
Silent FS Projector	2,351	2.79	2,354	3.32	1,707	3.10	1,863	3.90	174	3.16	146	4.56
FS-Slide Projector	2,042	2.42	1,778	2.50	1,849	3.36	1,576	3.30	194	3.53	66	2.06
Sound FS Projector	488	.58	762	1.07	701	1.27	1,060	2.22	42	.76	20	.63
FS Viewers	6,132	7.27	5,614	7.91	2,586	4.70	2,556	5.35	369	6.71	197	6.16
Overhead Projectors	7,617	9.04	6,779	9.55	7,655	13.92	7,190	15.04	574	10.44	314	9.81
Opaque Projectors	1,052	1.25	929	1.31	1,021	1.86	873	1.83	95	1.73	60	1.88
TV Monitors	2,132	2.53	2,554	3.60	1,373	2.50	1,943	4.06	86	1.56	121	3.78
Microscope Projectors	386	.46	216	.30	401	.73	159	.33	29	.53	7	.22
Record Player	8,803	10.44	8,274	11.65	4,521	8.22	4,171	8.73	621	11.29	340	10.63
Reel Recorder	2,253	2.67	1,563	2.20	2,785	5.06	2,215	4.63	168	3.05	64	2.00
Cassette Recorder	9,081	10.77	9,699	13.66	6,139	11.16	6,687	13.99	663	12.05	339	10.59
Cassette Player	3,172	3.76	2,789	3.93	2,556	4.65	2,354	4.92	177	3.22	78	2.44
Cart	9,022	10.70	8,961	12.62	7,770	14.13	8,289	17.34	504	9.16	359	11.22
Listening Station	7,530	8.93	7,084	9.98	2,175	3.95	2,021	4.23	400	7.27	249	7.78
Mounted Screens	8,845	10.49	7,594	10.70	8,292	15.08	7,888	16.50	630	11.45	259	8.09
Portable Screens	1,428	1.69	1,088	1.53	1,643	2.97	1,425	2.98	140	2.55	64	2.00
Copy Machines	833	.99	962	1.35	919	1.67	936	1.96	77	1.44	34	1.06
Duplicating Machines	1,221	1.45	1,095	1.45	1,073	1.95	1,069	2.24	90	1.64	46	1.44
VTR	241	.29			741	1.35			24	.44		
Recorder			541	.76			1,055	2.21			29	.91
Playback			186	.26			952	1.99			1	.03
Wireless Microphone	29	.03	47	.07	113	.21	101	.21	0	.00	0	.00
Microform Reader	60	.07	26	.04	379	.69	463	.97	3	.05	4	.13
Microform Reader/Printer	5	.01	6	.01	70	.13	66	.14	0	.00	0	.00
Radios			312	.44			370	.77			15	.47
Computer Terminals			42	.06			178	.37			5	.16
Microcomputers			116	.16			433	.91			7	.22

TABLE 4.3 continued
Total Numbers and Averages of Equipment Per Schools for Each Span
Comparison 1976 and 1980

	SPAN 4				SPAN 5				TOTAL			
	1976		1980		1976		1980		1976		1980	
	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.	Total	Avg.
16mm Projectors	286	4.77	286	4.80	143	4.21	403	5.60	6,348	4.12	6,598	4.88
Slide Projectors	110	1.83	99	1.70	55	1.62	138	1.90	2,195	1.42	2,319	1.72
Slide Viewers	43	.72	54	.90	61	1.79	63	.90	1,071	.69	1,003	.74
Silent FS Projector	199	3.32	229	3.82	116	3.41	336	4.76	4,547	2.95	4,928	3.64
FS-Slide Projector	174	2.90	149	2.48	85	2.50	181	2.51	4,344	2.82	3,750	2.77
Sound FS Projector	58	.97	68	1.13	13	.38	74	1.03	1,302	.84	1,984	1.47
FS Viewers	394	6.57	391	6.52	112	3.29	334	4.64	9,593	6.22	9,092	6.72
Overhead Projectors	666	11.10	702	11.70	371	10.91	855	11.88	16,883	10.95	15,840	11.72
Opaque Projectors	92	1.53	98	1.63	55	1.62	134	1.86	2,315	1.50	2,094	1.55
TV Monitors	126	2.10	174	2.90	113	3.23	354	4.92	3,830	2.48	5,146	3.82
Microscope Projectors	30	.50	17	.28	20	.59	36	.50	866	.56	435	.32
Record Player	401	6.68	422	7.03	307	9.03	684	9.50	14,653	9.50	13,891	10.27
Reel Recorder	212	3.53	170	2.83	113	3.32	246	3.42	5,531	3.59	4,258	3.15
Cassette Recorder	696	11.60	748	12.47	319	9.38	846	11.75	16,898	10.96	18,319	13.55
Cassette Player	257	4.28	338	5.63	85	2.50	156	1.17	6,247	4.05	5,715	4.23
Cart	631	10.52	790	13.17	325	9.56	841	11.68	18,252	11.84	19,240	14.23
Listening Station	316	5.27	371	6.18	239	7.03	438	6.08	10,660	6.19	10,163	7.52
Mounted Screens	715	11.92	641	10.68	368	10.82	849	11.79	18,850	12.22	17,231	12.72
Portable Screens	127	2.12	149	2.48	117	3.44	187	2.60	3,452	2.24	2,913	2.15
Copy Machines	87	1.45	98	1.63	65	1.91	155	2.15	1,981	1.28	2,185	1.59
Duplicating Machines	103	1.72	91	1.52	80	2.35	196	2.72	2,567	1.66	2,497	1.85
VTR	50	.83			34	1.00			1,090	.71		
Recorder			78	1.30			106	1.47			1,809	1.34
Playback			12	.20			19	.26			1,170	.87
Wireless Microphone	5	.08	32	.53	3	.09	14	.19	150	.10	194	.14
Microform Reader	13	.22	19	.32	20	.59	48	.67	475	.31	560	.41
Microform Reader/Printer	1	.02	1	.02	1	.03	3	.04	77	.05	76	.06
Radios			21	.35			50	.69			768	.57
Computer Terminals			2	.03			18	.25			236	.17
Microcomputers			10	.17			37	.51			603	.45

TABLE 4.4
Range of Audiovisual Equipment Holdings
Spans 1 and 2

SPAN	1 1/4 in projector	2 x 2 slide projector	2 x 2 viewer	FS/slide projector	FS viewer	Overhead projector	Opaque projector	Color TV	B & W TV	Micro projectors	Record players	Tape recorders	Projector carts	Listening stations	Permanent screens	Portable screens	Copy machines	Duplicating machines	VTR	VT player	Wireless microphones	Micro readers	Micro reader printer	Radios	Computer terminal	Micro computer
1	0-12	0-15	0-30	0-33	0-55	0-32	0-5	0-15	0-23	0-23	0-34	0-115	0-58	0-125	0-39	0-27	0-5	0-6	0-13	0-5	0-16	0-5	0-1	0-6	0-2	0-8
2	0-42	0-20	0-20	0-46	0-60	0-56	0-11	0-26	0-21	0-17	0-52	0-179	0-134	0-40	0-94	0-45	0-8	0-13	0-15	0-8	0-12	0-8	0-2	0-10	0-9	0-9

TABLE 4.5
Range of Audiovisual Equipment Holdings
Percentiles for Spans 1 and 2
1980

SPAN	Percentile	16mm Projector	2 x 2 slide projector	2 x 2 viewer	FS/slide projector	FS viewer	Overhead projector	Opaque projector	Color TV	B & W TV	Micro projectors	Record players	Tape recorders	Projector carts	Listening stations	Permanent screens	Portable screens	Copy machines	Duplicating machines	VTR	VT Player	Wireless microphones	Micro readers	Micro reader printer	Radios	Computer terminal	Micro computer
1	90	6	2	2	13	19	18	2	4	5	1	21	37	28	20	20	3	2	3	1	1	0	0	0	1	0	0
	75	4	1	1	9	12	14	2	2	2	0	17	27	18	14	16	2	2	2	1	0	0	0	0	1	0	0
	50	3	1	0	6	5	8	1	1	1	0	11	17	10	8	10	1	1	1	0	0	0	0	0	0	0	0
	25	2	0	0	3	2	5	1	1	0	0	6	10	5	4	5	1	1	1	0	0	0	0	0	0	0	0
	10	1	0	0	2	0	2	1	0	0	0	3	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0
2	90	14	6	2	19	13	31	3	5	4	1	18	49	44	10	38	6	3	4	5	1	0	2	1	2	1	3
	75	9	3	1	13	7	20	2	3	2	0	11	30	21	6	24	3	2	3	3	0	0	1	0	1	1	1
	50	5	2	0	7	3	12	2	1	1	0	6	15	10	3	12	2	2	2	2	0	0	1	0	0	0	0
	25	4	1	0	4	1	7	1	1	0	0	4	9	5	1	6	1	1	1	1	0	0	0	0	0	0	0
	10	3	0	0	2	0	4	1	0	0	0	2	5	2	0	0	1	0	0	0	0	0	0	0	0	0	0

TABLE 4.6
Videotape Equipment
By Type
1980

SPAN	SCHOOLS IN CELL	VHS		BETA		3/4" CASSETTE		1/2" REEL		OTHER		TOTAL	
		VTR	PLAYER	VTR	PLAYER	VTR	PLAYER	VTR	PLAYER	VTR	PLAYER	VTR	PLAYER
1	710	257	29	23	20	170	105	82	27	6	5	538	186
2	478	380	56	53	14	210	82	367	30	45	3	1055	185
3	32	12	0	3	0	4	0	7	1	3	0	29	1
4	60	27	1	4	0	26	7	17	3	5	0	79	11
5	72	46	5	2	2	19	2	34	8	5	2	106	19
TOTAL	1352	722	91	85	36	429	196	507	69	64	10	1807	402

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TABLE 4.7
Computers and Terminals
By Brand
1980

SPAN	SCHOOLS IN CELL	TERMINALS	MICRO-COMPUTERS							TOTAL	AVERAGE PER SCHOOL
			APPLE II	TRS 80	TI 90	ATARI 400	PET	OTHER	TOTAL MICRO		
1	710	33	46	2	11	0	39	18	116	149	.20
2	478	178	246	84	18	0	52	33	433	611	1.27
3	32	5	6	0	0	0	0	1	12	12	.37
4	60	2	7	2	0	0	1	0	10	12	.20
5	72	18	10	9	6	0	2	10	37	55	.76
TOTAL	1352	236	315	97	35	0	94	62	608	844	.62

TABLE 5.0
Plan for Progress
Guidelines for Staff and Budget

	PHASE I					
	K-6			7-12		
	Pupils		Prof.	Pupils		Prof.
*Certificated Staff	1 -	249	- 1½	1 -	499	- 1
	250 -	499	- 1	500 -	749	- 1½
	500 -	749	- 1½	750 -	1,249	- 2
	750 -	999	- 2	1,250 -	1,749	- 3
				1,750 -	2,249	- 4
				2,250 -	2,749	- 5
*Of which at least 1 has app. 86, end. 34 or end. 51						
Clerks Technicians	standards for 6			2X standards for 6		
Budget a & b	79-80 \$16.09 per pupil 80-81 \$18.48 per pupil					
COUNT	3			3		

TABLE 6
Ratio and FTE for Professional Staff
1980

Span	No. of Schools	Schools w/ Prof. Staff	% of Schools w/ Prof. Staff	Number	FTE	Avg. in Sch. w/ Prof. Staff	Enrollment	Served by Prof. Staff	Ratio	Percent Served	FTE-All Schools Surveyed	FTE Sch. w/ Prof. Staff	Ratio of Teachers Served/ Prof. Staff	Percent Served
1	710	457	64.37	469	245.4	.537	193,564	132,937	541.7	68.68	10,318.8	7,056.7	28.76	68.39
2	478	464	97.07	527	438.2	.944	212,549	208,692	476.2	98.19	13,456.0	13,214.1	30.16	98.20
3	32	25	78.13	26	21.6	.864	11,337	9,592	444.1	84.61	726.7	538.3	24.92	74.07
4	60	49	81.67	50	33.1	.676	18,887	16,334	493.5	86.48	1,221.6	1,069.0	32.30	87.51
5	72	69	95.83	73	53.6	.777	24,420	22,956	428.3	94.00	1,890.2	1,750.5	32.66	92.61
TOTAL	1,352	1,064	78.70	1,145	791.9	.744	460,757	390,511	493.1	84.75	27,613.3	23,628.6	29.84	85.57

TABLE 6.1
Number and Percent of Schools Meeting Standard
Professional Staff
Comparison 1976-1980

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SIZE	SPAN 1				SPAN 2				SPAN 3				SPAN 4				SPAN 5				TOTAL			
	1976		1980		1976		1980		1976		1980		1976		1980		1976		1980		1976		1980	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	10	11.49	16	21.62	49	41.88	22	20.75	2	11.11	5	35.71	2	40.00	0	.00	14	56.00	20	35.09	77	30.56	63	24.51
2	15	17.86	18	21.43	52	61.90	48	52.75	3	25.00	2	22.22	3	27.27	0	.00	3	37.50	1	16.67	76	38.19	69	33.50
3	16	19.51	12	18.18	58	66.67	32	56.14	2	25.00	2	33.33	6	46.15	4	40.00	0	.00	2	50.00	82	43.16	52	36.36
4	2	2.63	6	10.53	38	64.41	28	65.12	0	.00	0	.00	7	53.85	4	50.00	0	.00	1	100.00	47	29.56	39	35.45
5	1	1.47	7	7.87	19	55.88	21	43.75	0	.00	0	.00	2	40.00	6	54.55	0	.00	0	.00	22	20.37	34	22.82
6	6	5.31	2	2.78	5	8.62	6	18.75	0	.00	0	.00	0	.00	1	33.33	0	.00	0	.00	11	6.25	9	8.14
7	90	27.03	83	30.97	27	24.32	29	28.27	1	20.00	0	.00	3	33.33	2	33.33	0	.00	2	50.00	121	26.42	116	30.53
TOT	140	16.61	144	20.28	248	45.09	186	38.91	8	14.55	9	28.13	23	38.33	17	28.33	17	50.00	26	36.11	436	28.27	382	28.25

TABLE 6.2
Number and Percent of Professional Staff
With Various Endorsements*

	51	%	34	%	86	%	39	%	Both libr & A.V. Endorsemt	%	None of these Endorsemt	%	Total
Position 1	322	28.10	509	44.42	203	17.71	20	1.75	(46)	(4.01)	12	1.05	1,066
Position 2	15	1.31	14	1.22	7	.61	19	1.66			16	1.40	71
Position 3	1	.09	1	.09			5	.44	(1)	(.09)	1	.09	8
Position 4											1	.09	1
TOTAL	338	29.49	524	45.72	210	18.32	44	3.84	(47)	(4.10)	30	2.62	1,146

* Persons counted in 51 (director of library services) column may also have 34, 86, or 39.
 Persons counted in 34 (school librarian) column may also have 86 or 39.
 Persons counted in 86 (teacher librarian approval) column may also have 39.
 Persons counted in 39 (educational - i.e., audiovisual-media) column have none of the other endorsements.
 Persons counted in "both library and audiovisual endorsement" column are also counted elsewhere and are not included in total column.

Table 6.3
Range of Certificated Staff Regardless of Endorsement
Comparison of 1976 and 1980

FULL-TIME EQUIVALENT PROF. STAFF	SPAN 1		SPAN 2		SPAN 3		SPAN 4		SPAN 5		TOTAL	
	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980
7.6	0	0	0	1	0	0	0	0	0	0	0	1
5.0	0	0	0	4	0	1	0	0	0	0	0	5
4.2	0	0	0	1	0	0	0	0	0	0	0	1
4.0	0	0	1	1	0	0	0	0	0	0	1	1
3.8	0	0	0	2	0	0	0	0	0	0	0	2
3.4	0	0	0	1	0	0	0	0	0	0	0	1
3.0	0	1	7	25	0	1	0	0	0	0	7	27
2.6	0	0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	3	1	0	0	0	0	0	0	3	1
2.4	0	1	0	0	0	0	0	0	0	1	0	2
2.2	0	0	1	0	0	0	0	0	0	0	1	0
2.0	11	5	32	4	2	0	0	0	0	1	45	10
1.9	0	0	1	0	0	0	0	0	0	0	1	0
1.8	0	0	0	1	0	0	0	0	0	0	0	1
1.7	1	0	2	0	0	0	0	0	0	0	3	0
1.6	0	1	1	1	0	0	0	0	0	0	1	2
1.5	1	0	6	1	0	0	0	0	0	0	7	1
1.4	1	0	2	1	0	0	0	0	0	0	3	1
1.3	1	0	7	4	1	0	0	1	0	1	9	6
1.2	1	1	5	3	0	0	0	0	0	0	6	4
1.1	2	0	6	1	0	0	3	0	0	0	11	1
1.0	149	116	324	254	14	7	31	24	20	30	538	431
.9	0	0	4	5	0	0	1	1	1	1	6	7
.8	3	7	9	13	0	0	1	0	1	3	14	23
.7	7	8	7	11	2	0	1	0	1	5	18	24
.6	25	20	12	16	0	2	1	1	1	1	39	40
.5	65	87	58	71	8	11	3	5	6	20	140	194
.4	41	24	10	10	0	0	2	2	1	2	54	38
.3	49	51	15	11	1	3	5	5	1	1	71	71
.2	71	90	14	12	3	0	5	5	2	2	95	109
.1	89	45	10	9	3	0	3	5	0	1	105	60
.0	326	253	13	14	21	7	4	11	0	3	364	288
TOTAL	843	710	550	478	55	32	60	60	34	72	1542	1352

Table 6.4
Range of Certificated Staff Regardless of Endorsement
Percentiles
Comparison of 1976 and 1980

	SPAN 1				SPAN 2				SPAN 3				SPAN 4				SPAN 5				TOTAL			
PER- CEN- TILE	WITH 0		WITHOUT 0		WITH 0		WITHOUT 0		WITH 0		WITHOUT 0		WITH 0		WITHOUT 0		WITH 0		WITHOUT 0		WITH 0		WITHOUT 0	
	76	80	76	80	76	80	76	80	76	80	76	80	76	80	76	80	76	80	76	80	76	80	76	80
90	1.0	1.0	1.0	1.0	1.4	1.3	1.5	1.3	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	.5	.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	.2	.5	.5	.5	1.0	1.0	1.0	1.0	.3	.5	.7	.5	1.0	.5	1.0	1.0	1.0	.8	1.0	.8	.4	.5	.6	.7
25	.0	.0	.2	.2	.7	.5	.8	.6	.0	.3	.5	.5	.3	.1	.4	.3	.5	.5	.5	.5	.0	.1	.2	.4
10	.0	.0	.1	.2	.4	.4	.5	.5	.0	.0	.2	.3	.1	.0	.2	.1	.4	.4	.4	.5	.0	.0	.1	.2

TABLE 6.5
Range of Professional Staff with Endorsement 34 or Approval 86
Percentile Scores
Comparison of 1976 and 1980

PERCENTILE	SPAN 1		SPAN 2		SPAN 3		SPAN 4		SPAN 5		TOTAL	
	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980
					All Schools							
90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	0.1	0.2	1.0	1.0	0.3	0.5	1.0	0.5	1.0	0.7	0.5	0.5
25	0.0	0.0	0.6	0.5	0.0	0.0	0.3	0.1	0.5	0.5	0.1	0.0
10	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0
Schools Served Only												
90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.8	1.0	0.8
25	0.2	0.2	0.8	0.7	0.5	0.5	0.4	0.3	0.5	0.5	0.4	0.4
10	0.1	0.1	0.5	0.5	0.2	0.3	0.2	0.1	0.4	0.5	0.1	0.2

TABLE 7
Range of Support Staff
Percentile
1980

PERCENTILE	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	TOTAL
			All Schools			
90	1.0	2.0	1.0	1.2	1.0	1.0
75	1.0	1.0	0.6	1.0	0.9	1.0
50	0.5	0.5	0.1	0.5	0.4	0.5
25	0.2	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0
			Schools Served Only			
90	1.0	2.0	1.0	1.3	1.0	1.3
75	1.0	1.2	1.0	1.0	1.0	1.0
50	0.6	1.0	0.6	0.9	0.6	0.7
25	0.4	0.5	0.5	0.5	0.5	0.5
10	0.2	0.4	0.2	0.2	0.3	0.2

TABLE 7.1
Number and Percent of Schools Meeting Standard
Non-Professional Staff
Comparison 1976-1980

SIZE	SPAN 1*				SPAN 2*				SPAN 3				SPAN 4				SPAN 5				TOTAL			
	1976		1980		1976		1980		1976		1980		1976		1980		1976		1980		1976		1980	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1			17	22.97			0	.00			3	21.43			0	.00			0	.00			20	7.78
2			37	44.05			0	.00			3	33.33			0	.00			0	.00			40	19.42
3			25	37.88			1	1.75			2	33.33			0	.00			0	.00			28	19.58
4			20	35.09			1	2.33			0	.00			1	12.50			0	.00			22	20.00
5			29	32.58			1	2.08			0	.00			0	.00			0	.00			30	20.13
6			34	47.22			2	6.25			0	.00			0	.00			0	.00			36	33.64
7			127	47.39			4	3.96			0	.00			0	.00			0	.00			131	34.47
TOTAL	244	28.90	289	40.70	18	3.30	9	1.88	5	9.10	8	25.00	5	8.30	1	1.67	0	.00	0	.00	272	17.60	307	22.71

*Standard for K-6 is 1 times number of professionals.
Standard for 7-12 is 2 times number of professionals.

TABLE 7.2
Ratio and FTE for Support Staff
1980

SPAN	SIZE	COUNT	Schools w/Supp. Staff	% w/ Supp. Staff	No. Tech. Staff	No. Clerical Staff	No. Total Support	FTE Total Support	Avg. Supp. Staff-Schls Served
1	1	74	39	52.70	1	43	44	17.7	.454
	2	84	61	72.62	3	66	69	41.6	.682
	3	66	44	66.67	5	55	60	30.6	.696
	4	57	43	75.44	4	49	53	27.7	.644
	5	89	74	83.15	3	101	104	41.9	.566
	6	72	55	76.39	0	60	60	39.2	.713
	7	268	246	91.79	4	296	300	190.4	.774
TOTAL		710	562	79.15	20	670	690	389.1	.692

2	1	106	44	41.51	4	49	53	26.1	.593
	2	91	51	56.04	5	54	59	33.9	.665
	3	57	37	64.91	4	40	44	27.8	.751
	4	43	25	58.14	1	29	30	22.3	.892
	5	48	37	77.08	7	51	58	32.6	.881
	6	32	28	87.50	8	42	50	35.1	1.254
	7	101	89	88.12	21	236	257	171.0	1.921
TOTAL		478	311	65.06	50	501	551	348.8	1.122

3	1	14	7	50.00	0	7	7	3.4	.486
	2	9	4	44.44	1	5	6	3.3	.825
	3	6	3	50.00	1	4	5	2.6	.867
	4	1	1	100.00	0	1	1	.5	.500
	5	1	0	.00	0	0	0	.0	.000
	6	--	--	--	--	--	--	--	--
	7	1	1	100.00	0	1	1	.5	.500
TOTAL		32	16	50.00	2	18	20	10.3	.644

TABLE 7.2 continued
Ratio and FTE for Support Staff
1980

SPAN	SIZE	COUNT	Schools w/Supp. Staff	% w/ Supp. Staff	No. Tech. Staff	No. Clerical Staff	No. Total Support	FTE Total Support	Avg.Supp. Staff-Schls Served
4	1	6	4	66.67	0	5	5	1.5	.375
	2	16	11	68.75	6	10	16	7.0	.636
	3	10	7	70.00	0	8	8	4.9	.700
	4	8	4	50.00	1	4	5	4.2	1.050
	5	11	8	72.73	0	10	10	7.0	.875
	6	3	3	100.00	0	5	5	4.3	1.433
	7	6	4	66.67	0	5	5	3.6	.900
TOTAL		60	41	68.33	7	47	54	32.5	.793

5	1	57	32	56.14	3	33	36	22.1	.691
	2	6	4	66.67	1	4	5	3.2	.800
	3	4	3	75.00	0	5	5	3.9	1.300
	4	1	0	0.00	0	0	0	.0	.000
	5	--	--	--	--	--	--	--	--
	6	--	--	--	--	--	--	--	--
	7	4	3	75.00	0	3	3	1.7	.567
TOTAL	72	72	42	58.33	4	45	49	30.9	.736
GR. TOTAL		1352	972	71.89	83	1281	1364	811.6	.835

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TABLE 8
Number and Percent of Schools Meeting Guidelines
For Both Professional and Nonprofessional Staff*

SIZE	SPAN 1		SPAN 2		SPAN 3		SPAN 4		SPAN 5		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
1	6	8.11	0	.00	1	7.14	0	.00	0	.00	7	2.72
2	7	8.33	0	.00	0	.00	0	.00	0	.00	7	3.40
3	7	10.61	1	1.75	0	.00	0	.00	0	.00	8	5.59
4	3	5.26	1	2.33	0	.00	1	12.50	0	.00	5	4.55
5	4	4.49	0	.00	0	.00	0	.00	0	.00	4	2.68
6	1	1.39	0	.00	0	.00	0	.00	0	.00	1	.93
7	52	19.40	3	2.97	0	.00	0	.00	0	.00	55	14.47
TOTAL	80	11.27	5	1.05	1	3.13	1	1.67	0	.00	87	6.43

*Standard for K-6 is 1 times number of professionals.
Standard for 7-12 is 2 times number of professionals.
(There is no comparable table for 1976)

TABLE 9
Number of Schools Meeting Standard*
for Expenditures

SIZE	SPAN 1 No./Percent		SPAN 2 No./Percent		SPAN 3 No./Percent		SPAN 4 No./Percent		SPAN 5 No./Percent		TOTAL No./Percent	
1	4	5.41	20	18.87	0	0.00	0	0.00	4	7.02	28	10.89
2	3	3.57	17	18.68	0	0.00	2	12.50	0	0.00	22	10.68
3	5	7.58	13	22.81	0	0.00	1	10.00	1	25.00	20	13.99
4	4	7.02	15	34.88	0	0.00	2	25.00	0	0.00	21	19.09
5	6	6.74	11	22.92	0	0.00	1	9.09	0	0.00	18	12.08
6	7	9.72	6	18.75	0	0.00	1	33.33	0	0.00	14	13.08
7	15	5.60	4	3.96	0	0.00	0	0.00	0	0.00	19	5.00
TOTAL	44	6.20	86	17.99	0	0.00	7	11.67	5	6.94	142	10.50

*Standard for Phase I Expenditures were modified from 3 percent to 1 percent of the Iowa per pupil expenditure in the revision of Plan for Progress - K-6, 1979 and 7-12, 1980. Two schools met the standard for expenditures in the 1975 study. In 1976, 3 percent of the PPE was \$50; in 1979-80, 1 percent of the PPE was 16.09.

TABLE 9.1
Range of Per Pupil Expenditures by Span

SPAN	Print Media	A.V. Media	Print Media + A.V. Media	Media Equipment	Media Supplies	Total-1980	Total-1976
1	0-\$32.44	0-\$19.05	0-\$33.57	0-\$25.15	0-\$10.15	0-\$56.15	0-\$44.77
2	0- 43.79	0- 18.04	0- 58.39	0- 45.87	0- 11.47	0- 64.96	0- 90.45
3	0- 13.53	0- 2.76	0- 15.10	0- 7.77	0- 2.61	0- 19.46	0- 81.29
4	0- 19.28	0- 13.34	0- 27.51	0- 11.66	0- 5.12	0- 41.80	2.52-28.52
5	0- 15.25	0- 9.53	0- 19.68	0- 14.55	0- 6.45	0- 34.10	3.48-21.36

TABLE 9.2
Average Per Pupil Expenditures
By Span - Materials and Total

SPAN	Print Media + Audiovisual Media		Print Media + A.V. Media + Media Supplies + Media Equipment	
	1980	1976	1980	1976
1	\$ 8.97	6.44	\$ 11.74	9.08
2	10.61	8.52	15.32	12.42
3	6.36	6.19	9.10	9.69
4	9.06	8.13	13.21	11.22
5	8.38	6.22	12.31	8.92
TOTAL	9.63	7.46	13.41	10.74

TABLE 9.3
Comparison of Average Expenditures Per School
By Span, 1976 and 1980

SPAN	Print Media		A.V. Media		Print Media + A.V. Media		Media Equip		Media Supp		Total	
	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980	1976	1980
1	1,208	1,834	615	610	1,823	2,444	555	499	191	256	2,569	3,199
2	3,006	3,635	978	1,081	3,982	4,761	1,224	1,437	552	657	5,758	6,810
3	1,949	1,966	632	287	2,580	2,253	907	648	206	325	3,693	3,225
4	2,238	2,205	803	646	3,041	2,851	773	845	382	462	4,196	4,158
5	1,760	2,351	479	492	2,239	2,843	630	905	341	428	3,211	4,176
TOTAL	1,928	2,518	749	765	2,677	3,282	816	871	331	418	3,824	4,571

TABLE 9.4
Range of Materials
Expenditure Per School by Span

SPAN	Print Media	Audiovisual Media	Media Equipment	Media Supplies	Total
1	0 - \$ 8,762	0 - \$ 4,399	0 - \$12,000	0 - \$ 2,097	0 - \$17,300
2	0 - 19,500	0 - 21,200	0 - 23,500	0 - 9,200	0 - 63,900
3	0 - 6,467	0 - 1,780	0 - 3,000	0 - 1,555	0 - 9,876
4	0 - 6,500	0 - 5,296	0 - 5,500	0 - 3,060	0 - 16,595
5	0 - 8,500	0 - 3,750	0 - 7,000	0 - 4,200	0 - 22,200

TABLE 10
A Comparison of Schools Reporting a Physical Space Used
as a Library or Media Center in 1980 with 1976

SPAN CODE	SCHOOLS REPORTING CENTERS		SCHOOLS IN SPAN		PERCENT WITH CENTER	
	1980	1976	1980	1976	1980	1976
1 (K-6)	654	728	710	843	92.11	86.36
2 (7-12)	477*	542	478	550	99.79	98.73
3 (K-8)	29	43	32	55	90.63	78.18
4 (Middle)	60	58	60	60	100.00	96.67
5 (K-12)	72	32	72	34	100.00	94.12
TOTAL	1,292	1,403	1,352	1,542	95.56	90.99

*The school without a center is a low enrollment special school.

TABLE 11
Location of Materials in Schools by Span

SPAN	YEAR	COUNT	PRINT						NONPRINT					
			CLASS- ROOM	%	CENTER	%	OTHER	%	CLASS- ROOM	%	CENTER	%	OTHER	%
1	1980	710	59	8.31	638	89.86	13	1.83	128	18.03	497	70.00	85	11.97
	1976	843	133	15.78	681	80.78	28	3.32	259	30.72	473	56.11	109	12.93
2	1980	478	2	.42	471	98.54	5	1.05	114	23.85	337	70.50	27	5.65
	1976	550	17	3.09	522	94.91	10	1.82	182	32.09	298	54.18	70	12.73
3	1980	32	4	12.50	28	87.50	0	.00	7	21.88	22	68.75	3	9.38
	1976	55	16	29.09	38	69.09	1	1.82	18	32.73	26	47.27	10	18.18
4	1980	60	0	.00	60	100.00	0	.00	23	38.33	35	58.33	2	3.33
	1976	60	4	6.67	56	93.33	0	.00	24	40.00	31	51.67	5	8.33
5	1980	72	1	1.39	69	95.83	2	2.78	16	22.22	51	70.83	5	6.94
	1976	34	4	11.76	30	88.24	0	.00	11	32.35	17	50.00	6	17.65
TOTAL	1980	1352	66	4.88	1266	93.64	20	1.48	288	21.30	942	69.67	122	9.02
	1976	1542	174	11.28	1327	86.06	39	2.53	494	32.04	845	54.88	200	12.97

TABLE 12
Classification of Print and Audiovisual Materials by Span
A Comparison of 1976 and 1980
Summary

				UNCLASSIFIED			DEWEY				ACCESSION				OTHER			
SPAN	YEAR	COUNT	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS
1	1980	710	59	8.31	248	34.93	634	89.30	332	46.76	8	1.13	87	12.25	9	1.27	43	6.06
	1976	843	78	9.25	267	31.67	718	85.17	331	39.26	22	2.61	152	18.03	27	3.20	89	10.56
2	1980	478	2	.42	143	29.92	475	99.37	273	57.11	1	.21	50	10.46	0	.00	12	2.51
	1976	550	3	.55	171	31.09	542	98.36	242	44.00	6	1.09	79	14.36	1	.18	58	10.55
3	1980	32	4	12.50	15	46.88	28	87.50	10	31.25	0	.00	6	18.75	0	.00	1	3.13
	1976	55	9	16.36	25	45.45	43	78.18	21	38.18	2	3.64	5	9.09	1	1.82	4	7.27
4	1980	60	0	.00	26	43.33	60	100.00	26	43.33	0	.00	7	11.67	0	.00	1	1.67
	1976	60	0	.00	20	33.33	59	98.33	20	33.33	1	1.67	15	25.00	0	.00	5	8.33
5	1980	72	1	1.39	35	48.61	71	98.61	25	34.72	0	.00	11	15.28	0	.00	1	1.39
	1976	34	0	.00	10	29.41	34	100.00	7	20.59	0	.00	17	50.00	0	.00	0	.00
TOTAL	1980	1352	66	4.88	467	34.54	1268	93.79	666	49.26	9	.67	161	11.91	9	.67	58	4.29
	1976	1542	90	5.84	493	31.97	1395	90.47	621	40.27	31	2.01	268	17.38	29	1.88	156	10.12

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TABLE 12.1
Classification of Print and Audiovisual Materials
by Span and Size
Span 1 and 2

SPAN	SIZE	COUNT	UNCLASSIFIED				DEWEY				ACCESSION				OTHER			
			PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS
1	1	74	11	14.86	50	67.57	61	82.43	16	21.62	1	1.35	7	9.46	1	1.35	1	1.35
	2	84	10	11.90	48	57.14	71	84.52	26	30.95	2	2.38	8	9.52	1	1.19	2	2.38
	3	66	10	15.15	32	48.48	56	84.85	21	31.82	0	.00	8	12.12	0	.00	5	7.58
	4	57	2	3.51	24	42.11	52	91.23	28	43.86	2	3.51	3	5.26	1	1.75	2	3.51
	5	89	9	10.11	40	44.94	77	86.52	27	30.34	1	1.12	7	7.87	2	2.25	15	16.85
	6	72	9	12.50	21	29.17	58	80.56	19	26.39	2	2.78	20	27.78	3	4.17	12	16.67
	7	268	8	2.99	33	12.31	259	96.64	195	72.76	0	.00	34	12.69	1	.37	6	2.24
TOTAL		710	59	8.31	248	34.93	634	89.30	332	46.76	8	1.13	87	12.25	9	1.27	43	6.06

2	1	106	0	.00	60	56.60	105	99.06	32	30.19	1	.94	10	9.43	0	.00	4	3.77
	2	91	0	.00	32	35.16	91	100.00	52	57.14	0	.00	3	3.30	0	.00	4	4.40
	3	57	0	.00	18	31.58	57	100.00	35	61.40	0	.00	4	7.02	0	.00	0	.00
	4	43	0	.00	8	18.60	43	100.00	29	67.44	0	.00	5	11.63	0	.00	1	2.33
	5	48	1	2.08	12	25.00	47	97.92	29	60.42	0	.00	6	12.50	0	.00	1	2.08
	6	32	0	.00	7	21.88	32	100.00	18	56.25	0	.00	7	21.88	0	.00	0	.00
	7	101	1	.99	6	5.94	100	99.01	78	77.23	0	.00	15	14.85	0	.00	2	1.98
TOTAL		478	2	.42	143	29.92	475	99.37	273	57.11	1	.21	50	10.46	0	.00	12	2.51

TABLE 13
Cataloging By Span
Comparison Between 1975-76 and 1979-80

SPAN	TOTAL COUNT 75-76	TOTAL COUNT 79-80	UNCATALOGED				DICTIONARY CATALOG				OTHER CARD CATALOG				PRINTED LIST				OTHER			
			PRINT 76		PRINT 80		PRINT 76		PRINT 80		PRINT 76		PRINT 80		PRINT 76		PRINT 80		PRINT 76		PRINT 80	
			COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
1	843	710	73	8.66	56	7.89	673	79.83	569	80.14	47	5.58	54	7.61	21	2.49	17	2.39	29	3.44	14	1.97
2	550	478	5	.91	2	.42	515	93.64	441	92.26	18	3.27	27	5.65	4	.72	1	.21	7	1.27	7	1.46
3	55	32	8	14.54	0	.00	39	70.91	26	81.25	4	7.27	4	12.52	1	1.82	2	6.25	3	5.45	0	.00
4	60	60	1	1.67	0	.00	52	86.67	56	93.33	4	6.67	1	1.67	1	1.67	0	.00	2	3.33	3	5.00
5	34	72	0	.00	2	2.78	33	97.06	65	90.28	0	.00	5	6.95	0	.00	0	.00	1	2.94	0	.00
TOTAL	1542	1352	87	5.64	60	4.44	1312	85.08	1157	85.58	73	4.73	91	6.80	27	1.75	20	1.48	42	2.72	24	1.78

			AV 76		AV 80		AV 76		AV 80		AV 76		AV 80		AV 76		AV 80		AV 76		AV 80	
			COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
1	843	710	239	28.35	201	28.31	345	40.93	323	45.49	46	5.46	39	5.49	143	16.96	114	16.06	62	7.35	33	4.65
2	550	478	145	26.36	122	25.52	272	49.45	248	51.88	33	6.00	34	7.11	61	11.09	57	11.92	36	6.36	17	3.56
3	55	32	19	34.55	13	40.63	20	36.36	11	34.38	0	.00	2	6.25	11	20.00	5	15.63	4	7.27	1	3.13
4	60	60	17	28.33	23	38.33	17		23	38.33	1	1.67	3	5.00	18	30.00	9	15.00	6	10.00	2	3.33
5	34	72	10	29.41	24	33.33	11	32.35	22	30.56	4	8.82	7	9.72	4	11.76	17	23.61	5	1.47	2	2.78
TOTAL	1542	1352	430	27.88	383	28.33	665	43.13	627	46.38	84	5.45	85	6.29	237	15.37	202	14.94	113	7.33	55	4.07